

5TH GRADE SCIENCE CURRICULUM

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Earth Systems

Water on Earth

TOTAL WATER

OCEAN

1.385.984.600.000.000.000 LITER

97.5%

PLANTS & ANIMALS

0.00008%

ATMOSPHERE

0.00095%

LAKES & RIVERS

0.00897%

PERMAFROST

0.02%



GROUNDWATER

0.75%

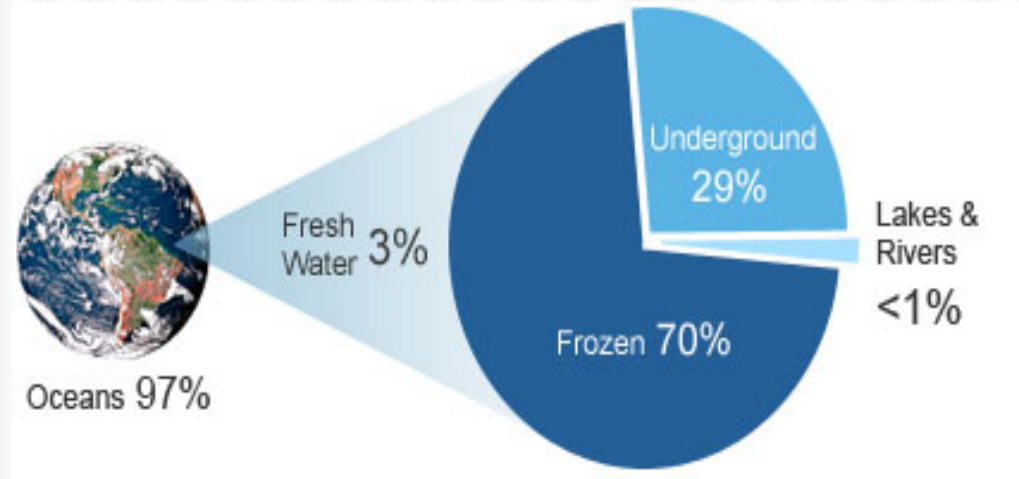


GLACIERS

1.72%

Freshwater vs. Saltwater

Of all the water on Earth only 3% of it is freshwater, or water that we can actually drink.



Evaporation

Evaporation - is when the sun heats up water in rivers or lakes or the ocean and turns it into vapor or steam.

QUIZ: From what state of matter is this water changing to?

Liquid -> _____



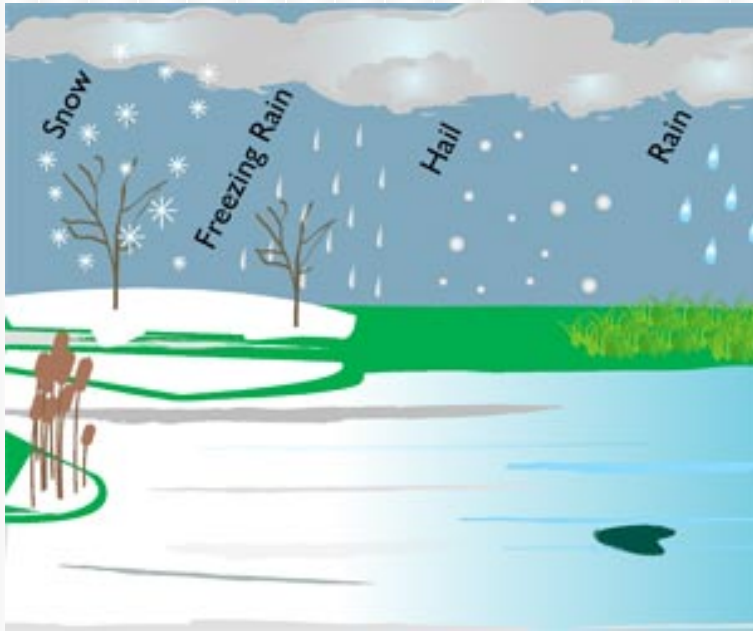
Condensation

Condensation - is the change of the physical state of matter from gas phase into liquid phase

Quiz: When water evaporates, where does it go?



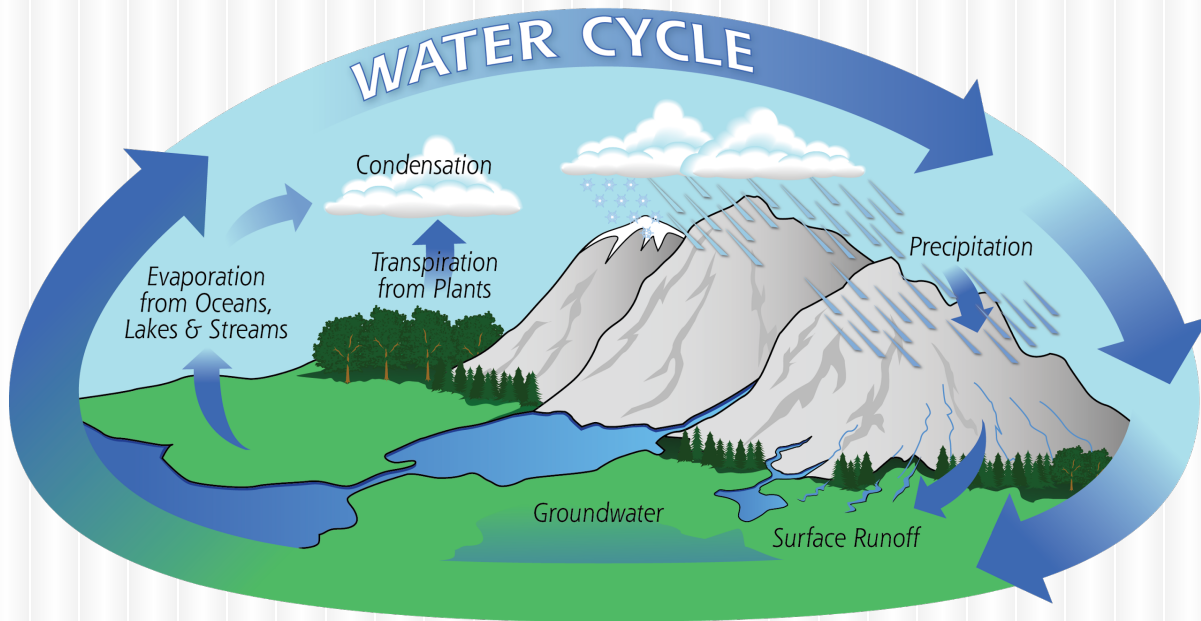
Precipitation



Precipitation - water that falls to Earth's surface as rain, snow, sleet, or hail

These are all the Different types of Precipitation. Precipitation occurs when water condenses in clouds and the air becomes so saturated with moisture that the water changes from a gas to a liquid.

The Water Cycle

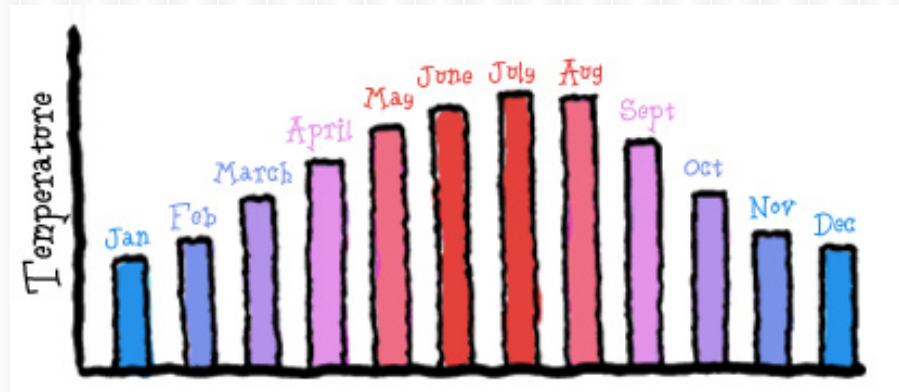


Water Cycle - the continuous process by which water moves from Earth's surface to the atmosphere and back

Climate vs. Weather

Weather - the state of the atmosphere at a place and time as regards heat, dryness, sunshine, wind, rain, etc.

Climate - the weather conditions prevailing in an area in general or over a long period.



How Does the Water Cycle Affect Us?

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Brainstorm!

List the ways that water affects you in your daily life

Plant Salinization Experiment



Why is Freshwater so important to us?

Its necessary for cooking, drinking, growing our crops.

How Does Salt Water affect plant growth? what salinity of water is harmful for plants?

Salinity- is the saltiness or dissolved salt content of a body of water